04-SC-001 – Science Laboratories Infrastructure, Project Engineering Design (PED), Various Locations

1. Construction Schedule History

Fiscal Quarter				Total Estimated Cost ($000)
A-E Work Initiated	A-E Work Completed	Physical Construction Start	Physical Construction Complete	

N/A-See Subproject details

2. Financial Schedule

(dollars in thousands)

Fiscal Year	Appropriations	Obligations	Costs
Prior Years	6,496[a]	6,496	4,037
FY 2004	2,974	2,974	4,245
FY 2005	4,960	4,960	3,188
FY 2006	3,000	3,000	3,960
FY 2007	0	0	2,000

3. Project Description, Justification and Scope

This project funds PED for two types of subprojects:

- Projects that renovate or replace inefficient and unreliable general purpose facilities (GPF) including general use, service and support facilities such as administrative space, cafeterias, utility systems, and roads; and
- Projects to correct Environment, Safety and Health (ES&H) deficiencies including deteriorated steam lines, environmental insult, fire safety improvements, sanitary system upgrades and electrical system replacements.

This PED data sheet requests design funding for the Systems Science Laboratory at Pacific Northwest National Laboratory.

[a] Title I and Title II Design funding of $803,000 (Subproject 17); $880,000 (Subproject 18); $1,500,000 (Subproject 25); requested under PED Project No. 02-SC-001, and $1,679,000 (Subproject 27); $1,089,000 (Subproject 28); $545,000 (Subproject 33) requested under PED Project No. 03-SC-001.

FY 2004 Ongoing Design Projects

General Purpose Facilities Projects:

04-05 MEL 001-046 Capability Replacement Laboratory

Fiscal Quarter				Total Estimated Cost (Design Only) ($000)	Full Total Estimated Cost Projection
A-E Work Initiated	A-E Work Completed	Physical Construction Start	Physical Construction Complete		
4Q2005	TBD	TBD	TBD	8,946	55,000-85,000

Fiscal Year	Appropriations	Obligations	Costs
2004	986	986	0
2005	4,960	4,960	3,986
2006	3,000	3,000	3,500
2007	0	0	1,460

The proposed PNNL subproject would relocate current PNNL research capabilities out of the 300 Area without interrupting the ongoing Office of Science mission-based research program. This laboratory would provide capabilities that directly contribute to the national science mission areas including systems biology, chemical and materials science, chemical and biological threat detection and hydrogen production and storage. The laboratory would be part of PNNL's capability replacement and replaces buildings currently occupied by the laboratory within the Hanford Site 300 Area cited for closure and cleanup by 2012. PNNL must vacate the facilities by the end of FY 2009. The laboratory facility will be approximately 100,000 GSF and include wet chemistry/biology labs and support space. FY 2005 funding will be used for both Conceptual Design and Project Engineering Design as needed.

(dollars in thousands)

(Design Project No. PED-04-SC-001) Science Laboratories Infrastructure, Project Engineering Design (PED), Various Locations	Location	Design TEC	Approp. to Date	Obligs. to Date	Costs to Date	Design Start	Design Completion	Constr. Status (Fiscal Year)
04-04 MEL-001-036 Safety and Operational Reliability Improvements	SLAC	1,988	1,988	1,988	1,300	3Q2004	4Q2005	4Q2005

Environment, Safety and Health Projects:

This project has two components: Underground Utility Upgrades – replaces deteriorated sections of cooling water, low conductivity water, drainage, natural gas, compressed air and fire protection and Seismic Upgrades which will install seismic upgrades necessary to bring various building structures into compliance with the seismic standards of the Uniform Building Code. The seismic hazard in the Bay Area is high. There are 19 'essential' facilities, i.e., those that will minimize the time required for the Laboratory to recover from an earthquake, will be retrofitted for a total of 229,000 sq. ft. Payback is 9 years.

4. Details of Cost Estimate

N/A

5. Method of Performance

Design services will be obtained through competitive and/or negotiated contracts. M&O contractor staff may be utilized in areas involving security, production, proliferation, etc. concerns.

6. Schedule of Project Funding

N/A